

N1 Neuraminidase (NA) Protein from Influenza A Virus, A/bald eagle/Florida/W22-134-OP/2022 (H5N1), Recombinant from Baculovirus

Catalog No. NR-59476

This reagent is the tangible property of the U.S. Government.

Product Description:

A recombinant form of the N1 Neuraminidase (NA) Protein from Influenza A Virus, A/bald eagle/Florida/W22-134-OP/2022 (H5N1), was produced in Sf9 insect cells using a baculovirus expression system. The recombinant ectodomain of the NA protein was purified by ion exchange and affinity chromatography. This item was manufactured and subjected to quality control testing by St. Jude Children’s Research Hospital (SJCRH), Memphis, Tennessee, USA.

Lot: 70062215

Manufacturing Date: 18MAY2023

TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	Opalescent
SDS-PAGE Analysis	Report results	Major band of ~55 kDa (Figure 1)
Identification by Western Blot Analysis ¹	Reactive	Reactive (Figure 2)
Concentration by Bicinchoninic Acid Assay Bovine Serum Albumin (BSA; standard)	Report results	0.49 mg/mL
Final Product Amount per vial Volume per vial	Report results Report results	98 µg 0.2 mL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay ²	Report results	Positive (1:128)
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered
Endotoxin	Report results	≤ 0.5 EU/mL

¹Using a 1:2000 dilution of anti-NA polyclonal goat antiserum G. 48 (2006) [against N1 NA proteins derived from A/Vietnam/1203/2004 and A/Hong Kong/483/1997 viruses] as primary antibody.

²Using serial dilutions of NR-59476 and 2’-(4-methylumbelliferyl)-α-D-N-acetylneuraminic acid (4-MUNANA), as described in Wetherall, N. T., et al. “Evaluation of Neuraminidase Enzyme Assays Using Different Substrates to Measure Susceptibility of Influenza Virus Clinical Isolates to Neuraminidase Inhibitors: Report of the Neuraminidase Inhibitor Susceptibility Network.” *J. Clin. Microbiol.* 41 (2003): 742-750. PubMed: 12574276.

Figure 1: SDS-PAGE Analysis

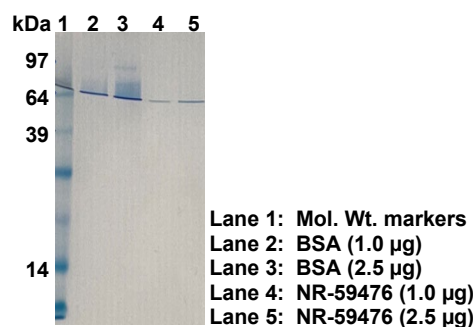
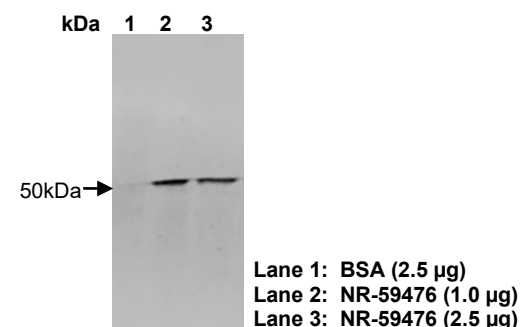


Figure 2: Western Blot Analysis



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